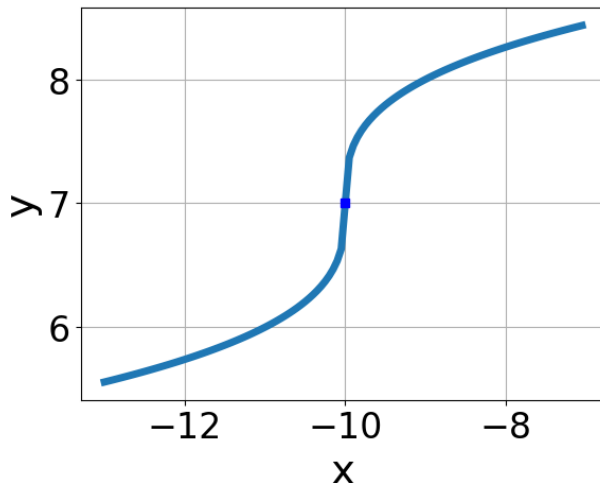


1. Choose the equation of the function graphed below.



- A. $f(x) = -\sqrt[3]{x-10} + 7$
- B. $f(x) = \sqrt[3]{x-10} + 7$
- C. $f(x) = \sqrt[3]{x+10} + 7$
- D. $f(x) = -\sqrt[3]{x+10} + 7$
- E. None of the above

2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-20x^2 - 24} - \sqrt{47x} = 0$$

- A. $x_1 \in [0.24, 2.82]$ and $x_2 \in [-0.2, 1.5]$
- B. All solutions lead to invalid or complex values in the equation.
- C. $x \in [-2.16, -1.15]$
- D. $x \in [-1.47, 0.11]$
- E. $x_1 \in [-2.16, -1.15]$ and $x_2 \in [-2.9, 0.3]$

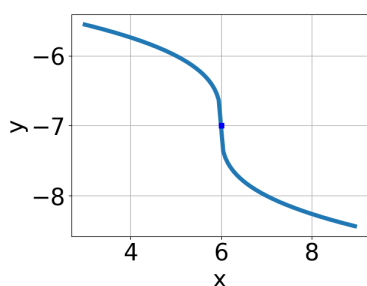
3. What is the domain of the function below?

$$f(x) = \sqrt[4]{-7x - 4}$$

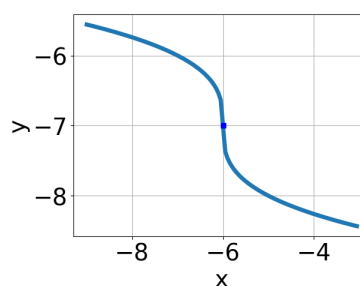
- A. $(-\infty, a]$, where $a \in [-1.5, 4.7]$
 B. $[a, \infty)$, where $a \in [-1, 1.3]$
 C. $(-\infty, \infty)$
 D. $[a, \infty)$, where $a \in [-3.9, -1]$
 E. $(-\infty, a]$, where $a \in [-1.9, -1.3]$

4. Choose the graph of the equation below.

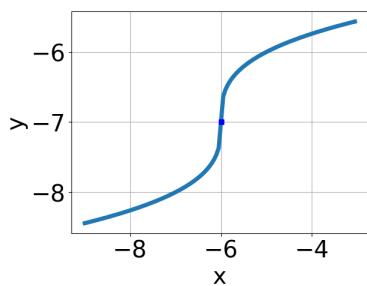
$$f(x) = \sqrt[3]{x-6} - 7$$



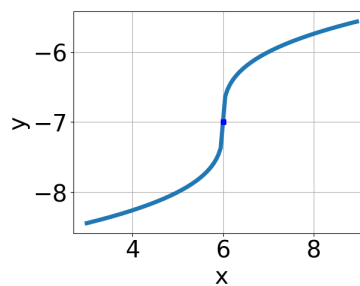
A.



C.



B.



D.

E. None of the above.

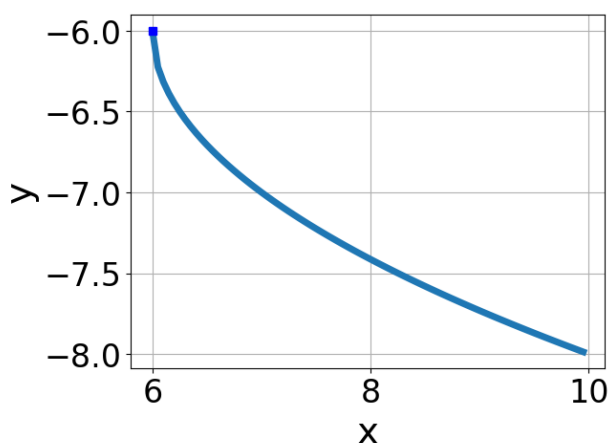
5. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{9x-3} - \sqrt{-2x+7} = 0$$

- A. $x_1 \in [-0.07, 0.35]$ and $x_2 \in [3.5, 4.5]$
 B. $x_1 \in [-0.07, 0.35]$ and $x_2 \in [-2.09, 1.91]$
 C. $x \in [0.52, 1.09]$

- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-0.5, -0.15]$
-

6. Choose the equation of the function graphed below.



- A. $f(x) = \sqrt[3]{x+6} - 6$
- B. $f(x) = \sqrt[3]{x-6} - 6$
- C. $f(x) = -\sqrt[3]{x+6} - 6$
- D. $f(x) = -\sqrt[3]{x-6} - 6$
- E. None of the above
-

7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{9x+8} - \sqrt{6x+6} = 0$$

- A. $x_1 \in [-1.1, -1]$ and $x_2 \in [-1.46, -0.82]$
- B. $x \in [-4.88, -4.46]$
- C. $x_1 \in [-0.89, -0.83]$ and $x_2 \in [-0.73, -0.45]$
- D. All solutions lead to invalid or complex values in the equation.
- E. $x \in [-0.77, -0.5]$

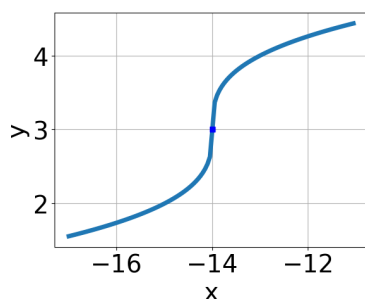
8. What is the domain of the function below?

$$f(x) = \sqrt[4]{-6x - 9}$$

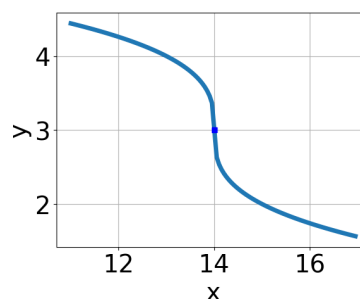
- A. $[a, \infty)$, where $a \in [-0.8, 1.4]$
- B. $(-\infty, a]$, where $a \in [-2.8, -1.14]$
- C. $[a, \infty)$, where $a \in [-2.7, -0.7]$
- D. $(-\infty, a]$, where $a \in [-1.36, 0.56]$
- E. $(-\infty, \infty)$

9. Choose the graph of the equation below.

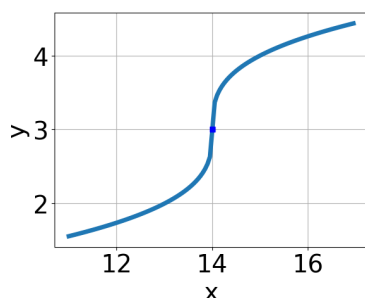
$$f(x) = -\sqrt[3]{x + 14} + 3$$



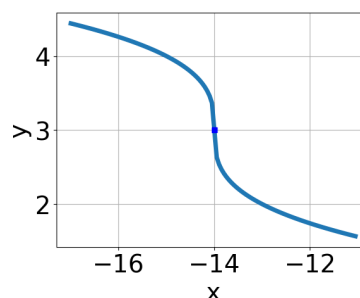
A.



C.



B.



D.

E. None of the above.

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{16x^2 - 18} - \sqrt{-12x} = 0$$

- A. $x \in [-2.2, -0.4]$
 - B. All solutions lead to invalid or complex values in the equation.
 - C. $x_1 \in [0.5, 1.2]$ and $x_2 \in [1.17, 1.59]$
 - D. $x \in [0.5, 1.2]$
 - E. $x_1 \in [-2.2, -0.4]$ and $x_2 \in [-0.12, 1.42]$
-